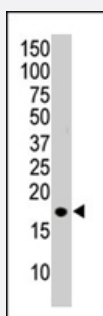


# H3F3A/H3F3B (phospho S10) monoclonal antibody, clone 44AT1232

Catalog # MAB1148

Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western analysis of extracts from HL-60 cells treated with 100 nM of calyculin using H3F3A/H3F3B (phospho S10) monoclonal antibody, clone 44AT1232 (Cat # MAB1148).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against synthetic phosphopeptide of H3F3A/H3F3B.
<b>Immunogen</b>	Synthetic phosphopeptide (conjugated with KLH) corresponding to amino acids 7-18 residues surrounding S10 of human H3F3A/H3F3B.
<b>Host</b>	Mouse
<b>Reactivity</b>	Human, Mouse
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Isotype</b>	IgG1
<b>Recommend Usage</b>	Western Blot (1:100-500) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)

**Storage Instruction**

Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western analysis of extracts from HL-60 cells treated with 100 nM of calyculin using H3F3A/H3F3B (phospho S10) monoclonal antibody, clone 44AT1232 (Cat # MAB1148).

## Gene Info — H3F3A

**Entrez GeneID**[3020](#)**Protein Accession#**[NP\\_002098;NP\\_005315;P84243](#)**Gene Name**

H3F3A

**Gene Alias**

H3.3A, H3F3, MGC87782, MGC87783

**Gene Description**

H3 histone, family 3A

**Omim ID**[601128](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a replication-independent member of the histone H3 family. [provided by RefSeq]

**Other Designations**

OTTHUMP00000035618|OTTHUMP00000035619|OTTHUMP00000035621

## Gene Info — H3F3B

**Entrez GeneID**[3021](#)**Protein Accession#**[NP\\_002098;NP\\_005315;P84243](#)

Gene Name	H3F3B
Gene Alias	H3.3B, H3F3A
Gene Description	H3 histone, family 3B (H3.3B)
Omim ID	<a href="#">601058</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a member of the histone H3 family. [provided by RefSeq]
Other Designations	H3 histone, family 3A H3 histone, family 3B

## Publication Reference

- [Distinct factors control histone variant H3.3 localization at specific genomic regions.](#)

Goldberg AD, Banaszynski LA, Noh KM, Lewis PW, Elsaesser SJ, Stadler S, Dewell S, Law M, Guo X, Li X, Wen D, Chappier A, DeKever RC, Miller JC, Lee YL, Boydston EA, Holmes MC, Gregory PD, Greally JM, Rafii S, Yang C, Scambler PJ, Garrick D, Gibbons RJ, Higgs DR, Cristea IM, Urnov FD, Zheng D, Allis CD.

Cell 2010 Mar; 140(5):678.

- [New functions for an old variant: no substitute for histone H3.3.](#)

Elsaesser SJ, Goldberg AD, Allis CD.

Current Opinion in Genetics & Development 2010 Feb; 20(2):110.

- [ATRX interacts with H3.3 in maintaining telomere structural integrity in pluripotent embryonic stem cells.](#)

Wong LH, McGhie JD, Sim M, Anderson MA, Ahn S, Hannan RD, George AJ, Morgan KA, Mann JR, Choo KH.

Genome Research 2010 Jan; 20(3):351.

## Pathway

- [Systemic lupus erythematosus](#)
- [Systemic lupus erythematosus](#)

## Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)